INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/20589

A. CLASSIFICATION OF SUBJECT MATTER			
IPC(7) : C12Q 1/68, C12P 19/34; C07H 21/00, 21/02, 21/04 US CL : 435/6, 91.1, 91.31, 91.52; 536/23.1, 24.3, 24.5			
According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols) U.S.: 435/6, 91.1, 91.31, 91.52; 536/23.1, 24.3, 24.5			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) West, Dialog			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
Y, P	CARRIERO, S. et al. Template Mediated Synthesis of Lariat RNA and DNA, J. Org. Chem., Vol. 68, pages 8328-8338 (10-4-03) (text and fig. 1 on p. 8328, fig. 2 on p. 8329fig. 6 on p. 8335.		
Y	FLYNN-CHARLEBOIS, A. et al. In Vitro evolution of an RNA-cleaving DNA enzyme into an RNA ligase switches the selectivity from 3'-5' to 2'-5', J. Am. Chem. Soc., Vol. 125, pages 5346-5350 (4-11-03), abstract, text and fig. 1fig. 3, p. 5348, figs. 5 and 6 on p. 5349. on pp. 5346-5347;		
Y	KUWABARA, T. et al. A novel allosterically trans-ac exceptional specificity in vitro and in vivo, Molecular text on pp. 617-620, 624-625.		10-33
Further	documents are listed in the continuation of Box C.	See patent family annex.	
	Special categories of cited documents:	"T" later document published after the inte	mational filing date or priority
"A" document defining the general state of the art which is not considered to be of particular relevance		date and not in conflict with the application but cited to understand the principle or theory underlying the invention	
·	oplication or patent published on or after the international filing date	"X" document of particular relevance; the considered novel or cannot be conside when the document is taken alone	
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being	
	it referring to an oral disclosure, use, exhibition or other means	obvious to a person skilled in the art	
priority o	at published prior to the international filing date but later than the date claimed	"&" document member of the same patent	<u> </u>
Date of the actual completion of the international search 08 December 2004 (08.12.2004)		Date of mailing of the international search report 1 7 MAR 2005	
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